





Connecting the Dots Antibiotics, Immunizations, and Sepsis

March 15, 2022 3:00 – 4:00 pm CT Tammy Wagner, RN, LSSGB, CADDCT, CDP Krystal Hays, DNP, RN, CADDCT, CDP, RAC-CT

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Polling Question #1

- The description that best fits my organization:
 - ☐Nursing Home
 - □Hospital
 - ☐ Home Health/Hospice
 - Clinic
 - **□**Other

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Objectives

- Understand the connection between sepsis, immunizations and antibiotics
- Review data related to sepsis in the Dakotas
- Recognize the role immunizations play in avoiding unnecessary antibiotics
- Review resources to support antibiotic stewardship, sepsis recognition and immunization



Polling Question #2

My organization has worked on sepsis outreach and awareness:

□Yes

□No

☐Not sure

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Video The Faces of Sepsis

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What is Sepsis?

- Sepsis is the body's extreme response to an infection. It happens when an infection your patient already has—like in their skin, lungs or urinary tract—triggers a chain reaction throughout their body
- Sepsis rapidly leads to tissue damage, organ failure and death
- Sepsis is life-threatening and requires prompt treatment. Early recognition and treatment of sepsis saves lives

https://www.cdc.gov/sepsis/what-is-sepsis.html

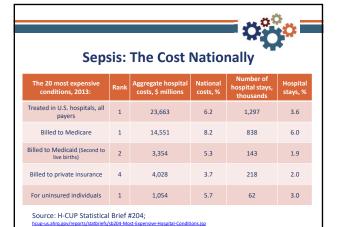


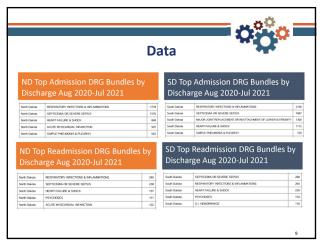
Sepsis: The Impact

- 270,000 Americans die each year from sepsis
- 87% of sepsis cases start in the community, not in a hospital
- The risk of death increases 8% every hour that sepsis goes untreated
- 1 person every 2 minutes dies from sepsis in the United States
- 35% of American adults have NEVER heard of sepsis

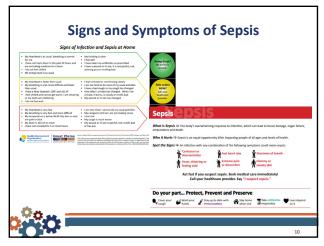
Source: Sepsis Alliance Sepsis Fact Sheet - https://www.sepsis.org/education/resources/fact-sheets/

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Sepsis Awareness is Critical

- Sepsis is a community problem
- Four preventative steps:
 - Prevent infections
 - Good hygiene
 - Know the symptoms
 - Act FAST if sepsis is suspected



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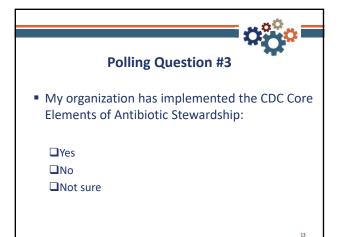
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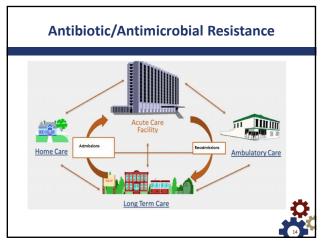
Sepsis

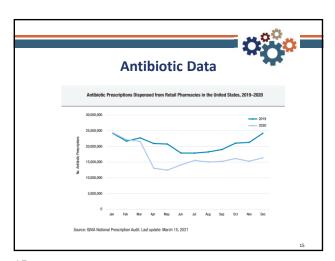
"as the physicians say it happens in hectic fever, that in the beginning of the malady it is easy to cure, but difficult to detect, but in the course of time, not having been either detected or treated in the beginning, it becomes easy to detect, but difficult to cure"

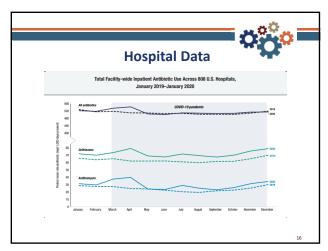
- Niccolò Machiavelli

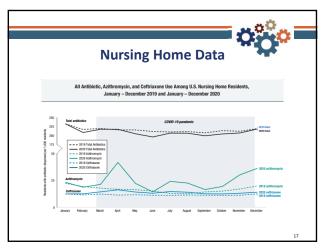
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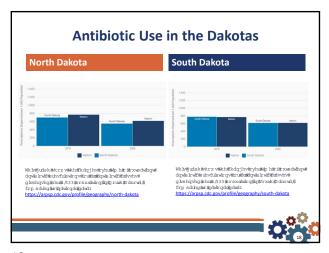


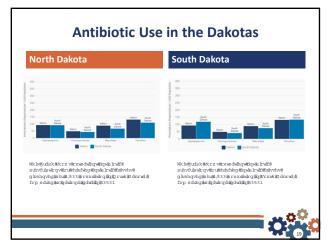


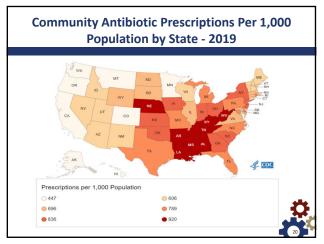


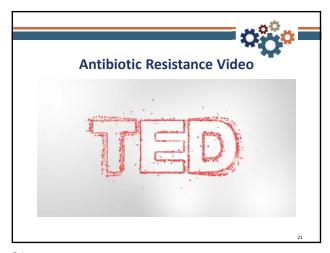


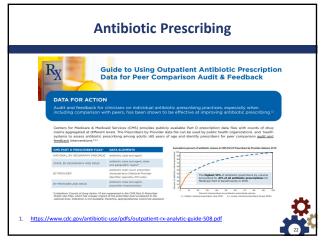














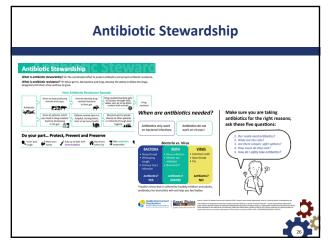
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New Resources

- Nursing Home Viruses/Bacteria Chart cdc.gov/antibiotic-use/pdfs/VirusOrBacteria-NH-P.pdf
- Long-Term Care Pharmacy Posters cdc.gov/antibiotic-use/training/materials.html#anchor 1626372074279
- Hospital Discharge Poster cdc.gov/antibiotic-use/pdfs/BAA-Hospital-Discharge-Flowchart-P.pdf
- Watchful Waiting for Ear Infections Prescription Pad cdc.gov/antibiotic-use/pdfs/WatchfulWaitingEar-P.pdf





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Defense Strategies

- Follow infection prevention and control guidelines, including screening at-risk populations
- Ask if recently received care in another facility or traveled to another country
- Alert receiving facility when transferring a person who is colonized or infected with an antibiotic-resistant germ
- Educate on ways to prevent spread of germs and infection
- Stay informed of current outbreaks
- Improve antibiotic prescribing
- Ensure receive recommended vaccines, talk to families about:
 - Preventing infections
 - Keeping wounds clean
 - Managing chronic conditions
 - Seeking medical care when an infection is not getting better
 - Understanding when antibiotics are needed

Source: cdc.gov/drugresistance/healthcare-providers.html



Improve Antibiotic Prescribing

- Follow clinical and treatment guidelines
- Implement CDC's <u>Core Elements of Antibiotic Stewardship</u> to ensure appropriate antibiotic use
- Consider fungal infections for patients with respiratory infections that do not respond to antibiotics, for example Valley fever (coccidioidomycosis), histoplasmosis, or blastomycosis
- Watch for signs and symptoms of sepsis: <u>Clinical Resources and</u> Guidelines
- Perform appropriate diagnostic tests to guide antibiotic therapy, including correct drug, dose (amount), and duration (period of time)

 ${\tt cdc.gov/drugresistance/healthcare-providers.html}$



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Polling Question #4

 Improving immunizations has been a priority in my organization.

□Yes

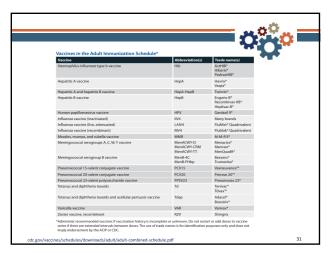
□No

☐Not sure



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Immunization Data North Dakota INFLUENZA INFLUENZA Nursing Home 97.9% Nursing Home 96.8% Community 66.8% Community 64.0% PNEUMOCOCCAL Nursing Home 98.5% Nursing Home 94.1% Community 74.1% Community 74.1% Community 73.1%



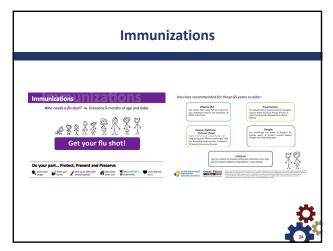


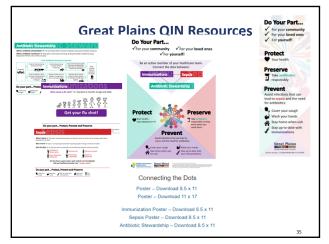
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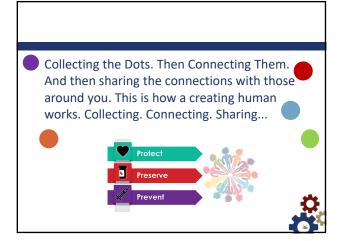
COVID-19 Vaccines/Boosters and Motivational Interviewing (MI)

- COVID-19 vaccines are safe, effective and free. Get answers to frequently asked questions and bust myths about vaccines
- Why use MI for vaccine support?
- "MI is a collaborative, goal-oriented style of communication with attention to language of change. Designed to strengthen personal motivation for and commitment to a goal by eliciting and exploring a person's own reasons for change with acceptance and compassion" (Miller & Rollnick)
- View GPQIN Motivational Interviewing to Build Trust in Vaccinations webinar recording















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